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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.18/LG/CEMENT/2014-15

Date: 05.08.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. L. Gangadhar,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of RCC drain and culverts in Chikkamaranahalli Layout Main Road and Cross Road in Ward No. 18, BBMP, Bangalore.
REFERENCE	:	AEE/H/(WO)/174/2014-15 Dated: 04.08.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

AE-18

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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CE/BBMP/W.No.18/LG/SAND/2014-15 : 05.08.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

it	: Asst. Executive Engineer, Hebbal Sub Division, BBMP, Bangalore.
ncy	: Mr. L. Gangadhar, Contractor, Bangalore.
ame of Work	: Construction of RCC drain and culverts in Chikkamaranahalli Layout Main Road and Cross Road in Ward No. 18, BBMP, Bangalore.
Reference	: AEE/H/(WO)/174/2014-15 Dated: 04.08.2014
Date of Testing	: 05.08.2014
Material	: Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	93	4.65	4.65	95.4	90-100
2.36	264	13.20	17.85	82.2	75-100
1.18	435	21.75	39.60	60.4	55-90
600 Micron	472	23.60	63.20	36.8	35-59
300 Micron	514	25.70	88.90	11.1	8-30
150 Micron	146	7.30	96.20	3.8	0-10

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Asst. Executive Engineer

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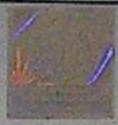
No. CTCE/BBMP/W.No.18/LG/AGG/2014-15 : 05.08.2014



TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.

Agency : **Mr. L. Gangadhar,** Contractor, Bangalore.

Name of Work : Construction of RCC drain and culverts in Chikkamaranahalli Layout Main Road and Cross Road in Ward No. 18, BBMP, Bangalore.

Reference : AEE/H/(WO)/174/2014-15 Dated: 04.08.2014

Date of Testing : 05.08.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	997	3.99	3.99	96.01	95-100
20	16248	64.99	68.98	31.02	30-70
10	4986	19.94	88.92	11.08	10-35
4.75	2431	9.72	98.65	1.35	0-5

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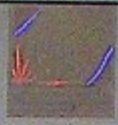
Job No.: CTCE/BBMP/W.No.18/LG/CUBE/2014-15  22.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.
Agency	: **Mr. L. Gangadhar,** Contractor, Bangalore.
Name of the work	: Construction of RCC drain and culverts in Chikkamaranahalli Layout Main Road and Cross Road in Ward No. 18, BBMP, Bangalore.
Reference	: AEE/H/(WO)/174/2014-15 Dated: 04.08.2014
Sample ID	: Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS. 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.08.2014	22.08.2014	8.114	358.5	15.93
2	15.08.2014	22.08.2014	8.315	393.7	17.50
3	15.08.2014	22.08.2014	8.238	374.4	16.64

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